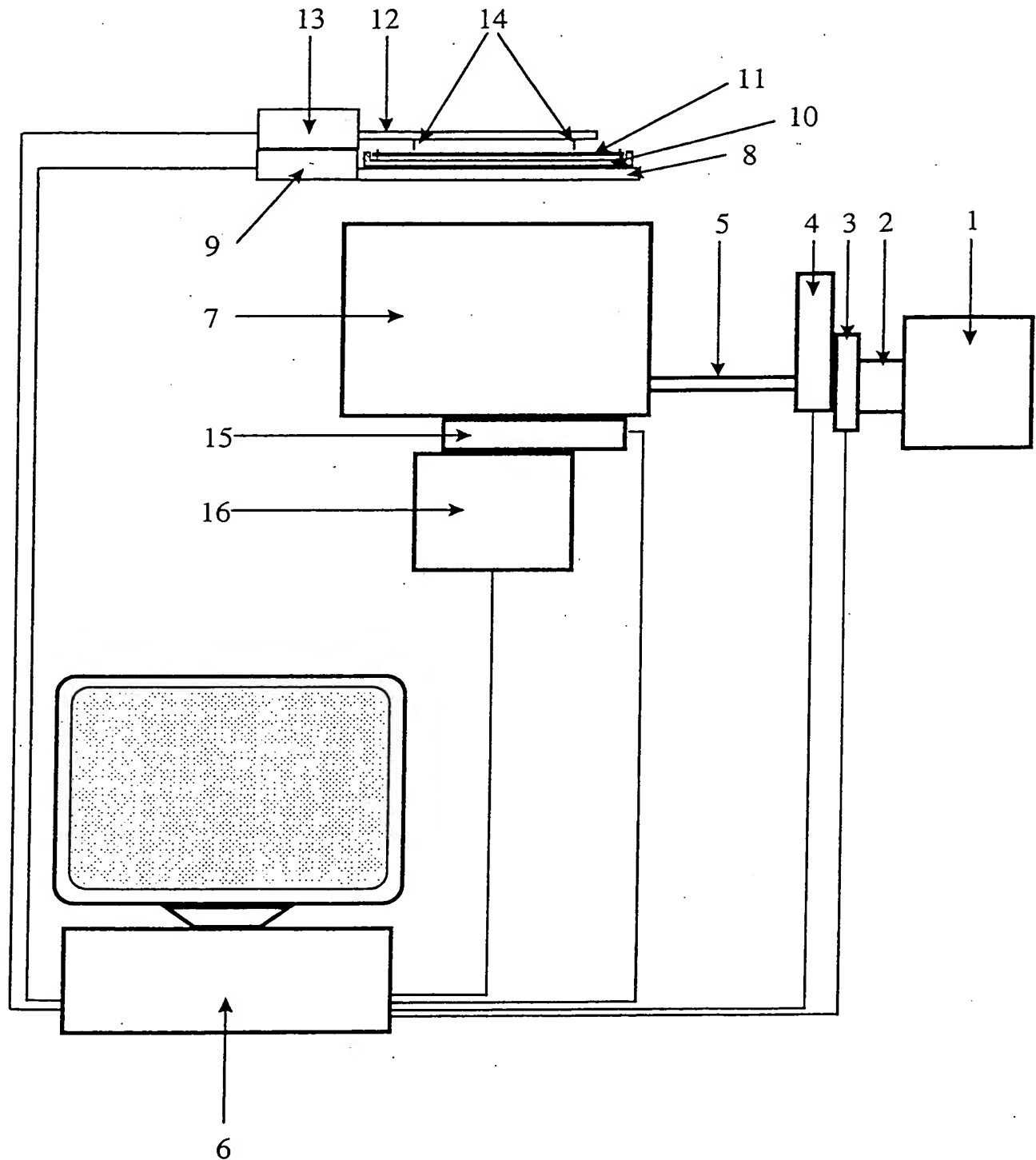


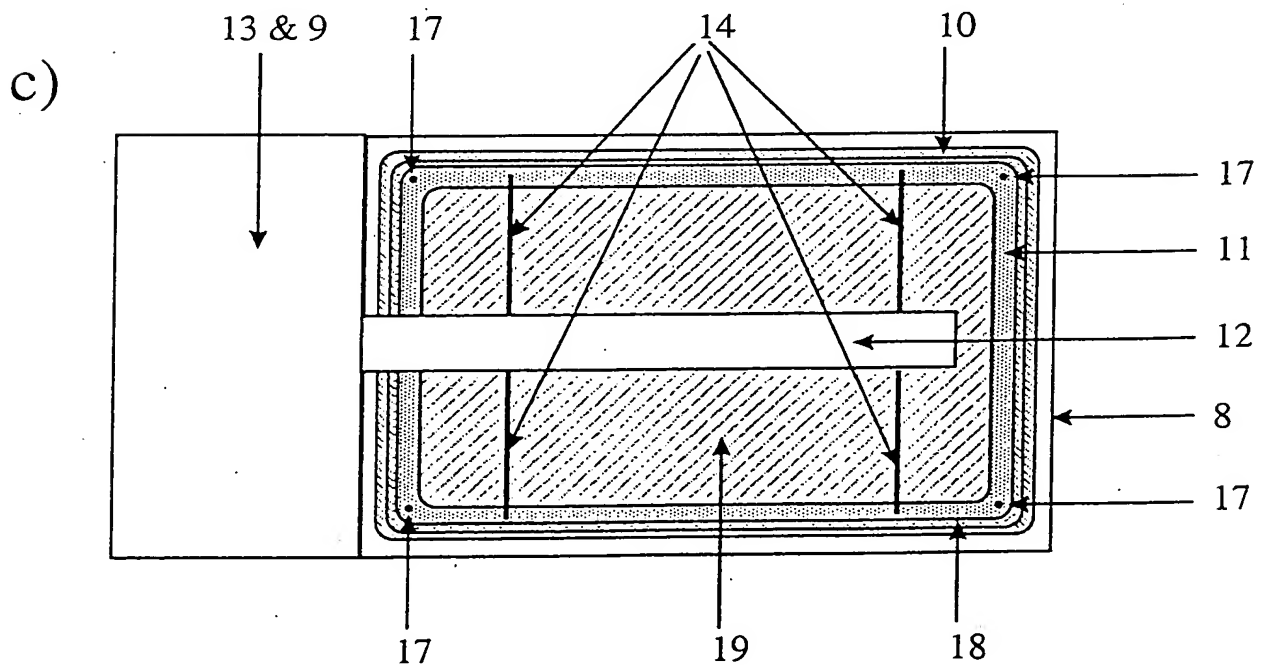
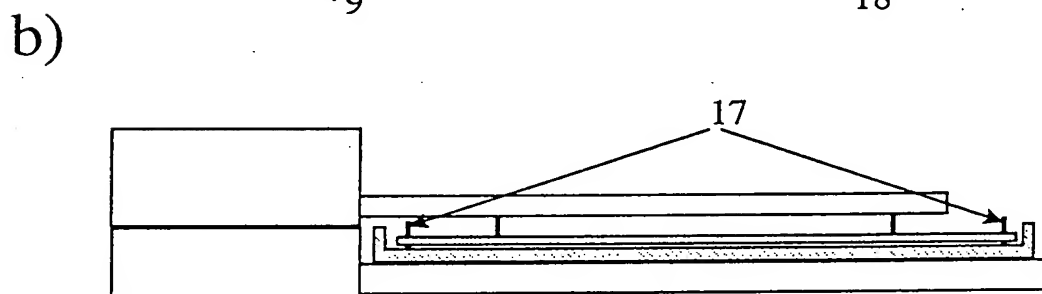
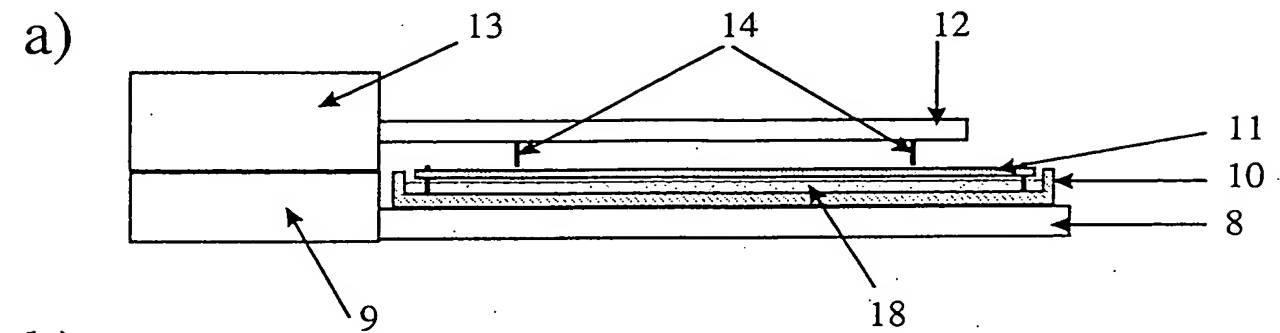
**Fig. 1**

**Schematic view of equipment; not to scale**



**Fig. 2**

**Side views of test stage; not to scale**



**Top view of test stage; not to scale**

3-D sectional representations of portions of  
the test-array/detector layers: not to scale

Fig. 3

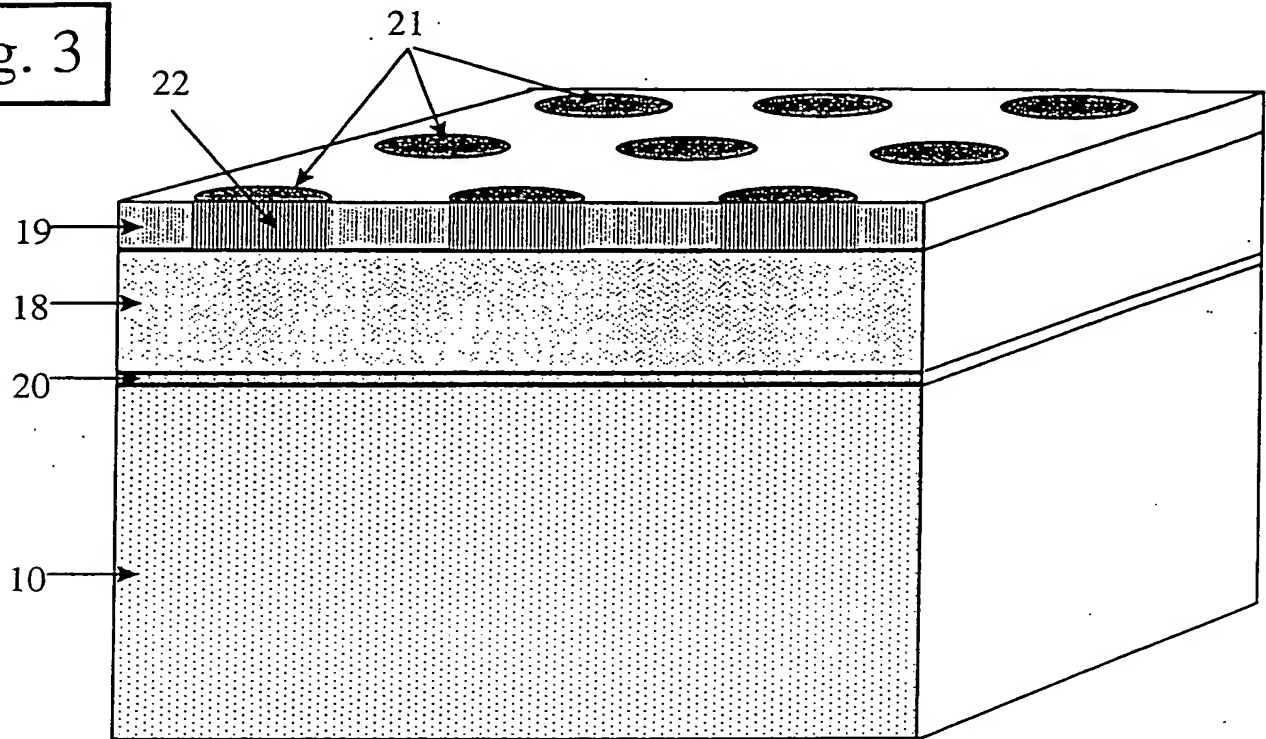


Fig. 4

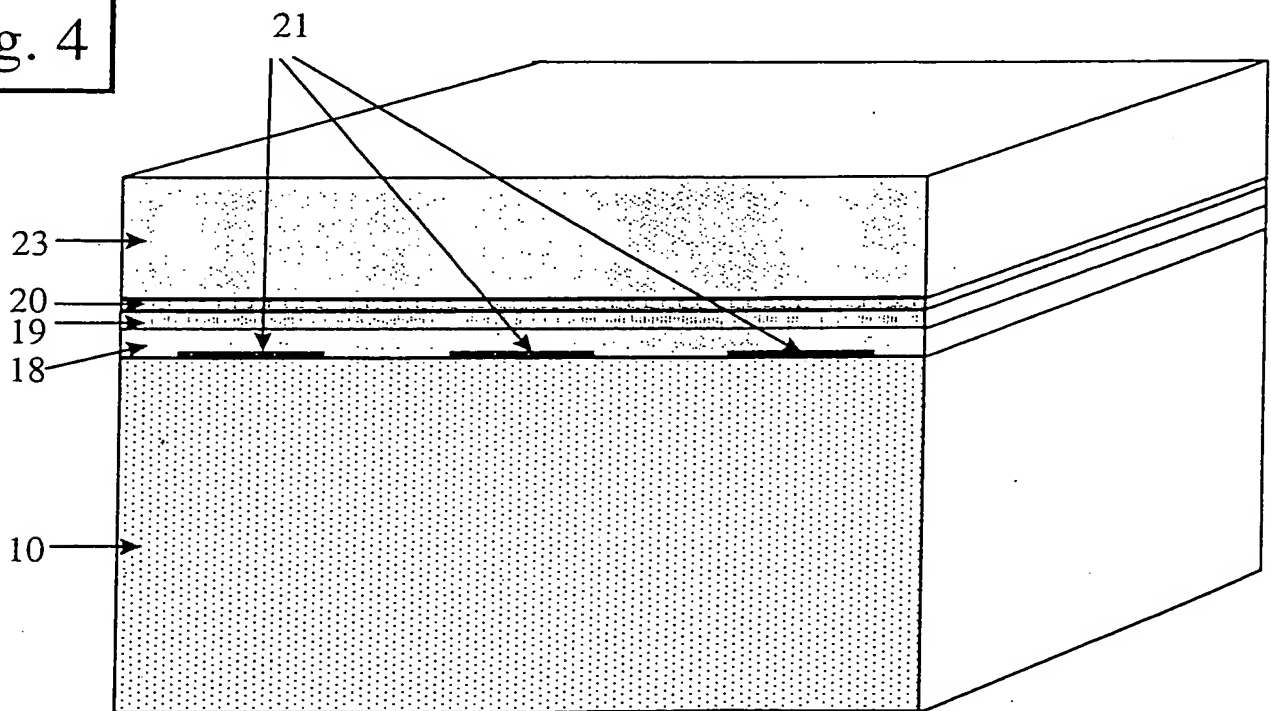
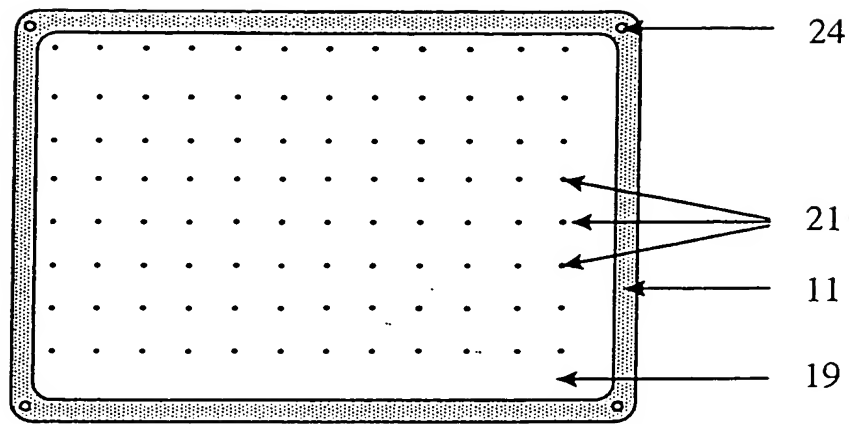
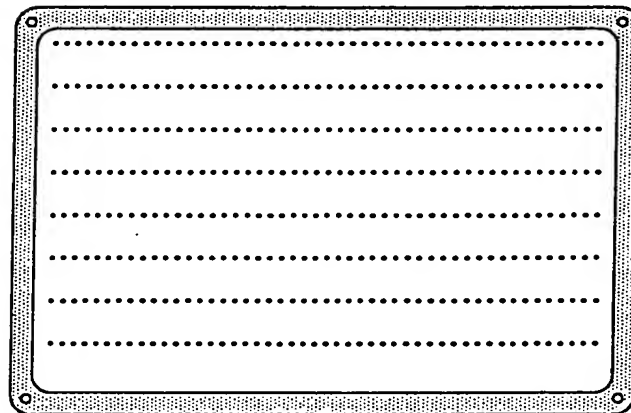


Fig. 5

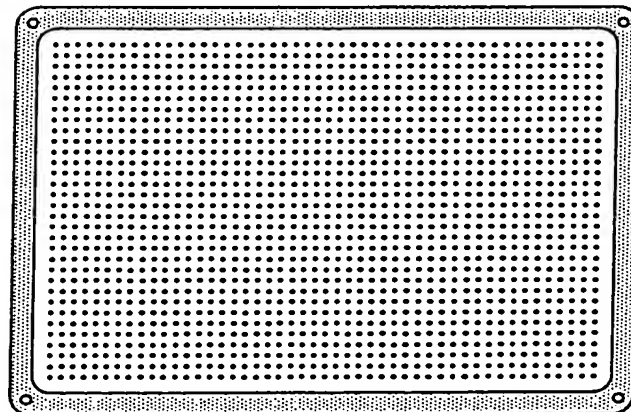
a)



b)



c)



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Carbamylcholine Response  
( 1 mM, five spots )

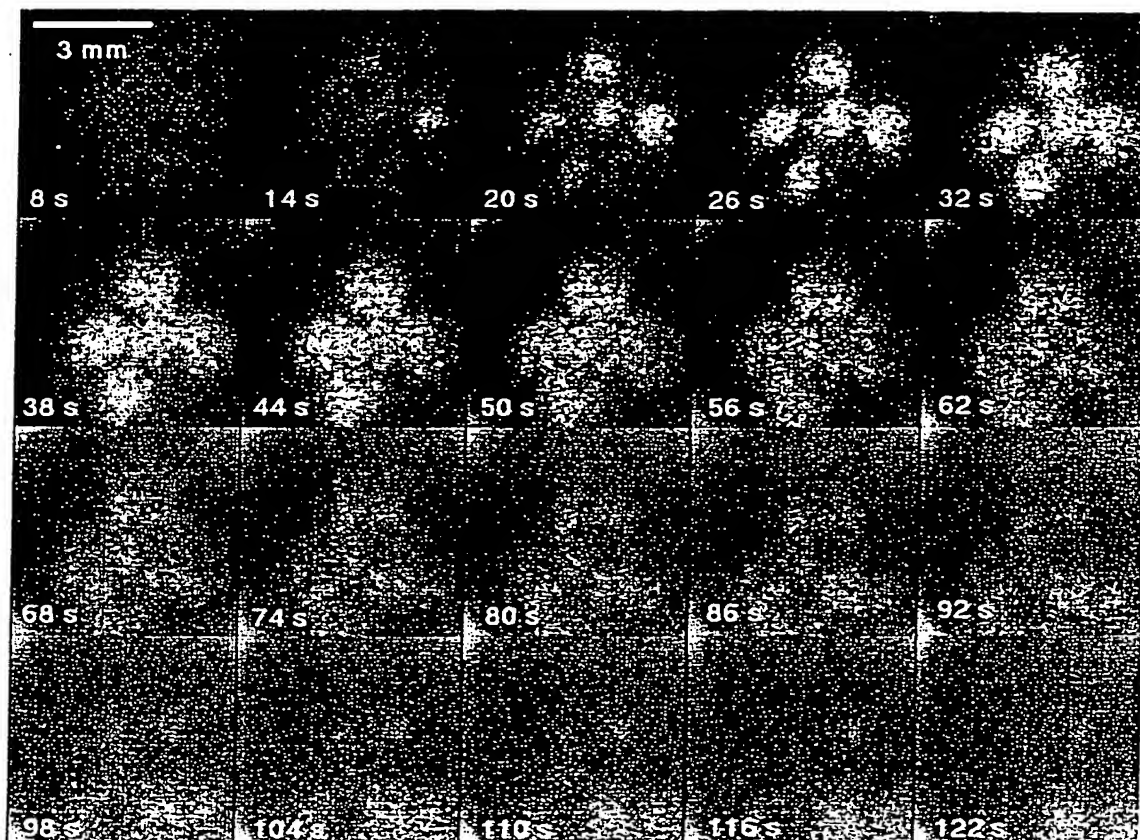


Figure 6

**Carbamylcholine Response**  
( 1 mM, five spots)

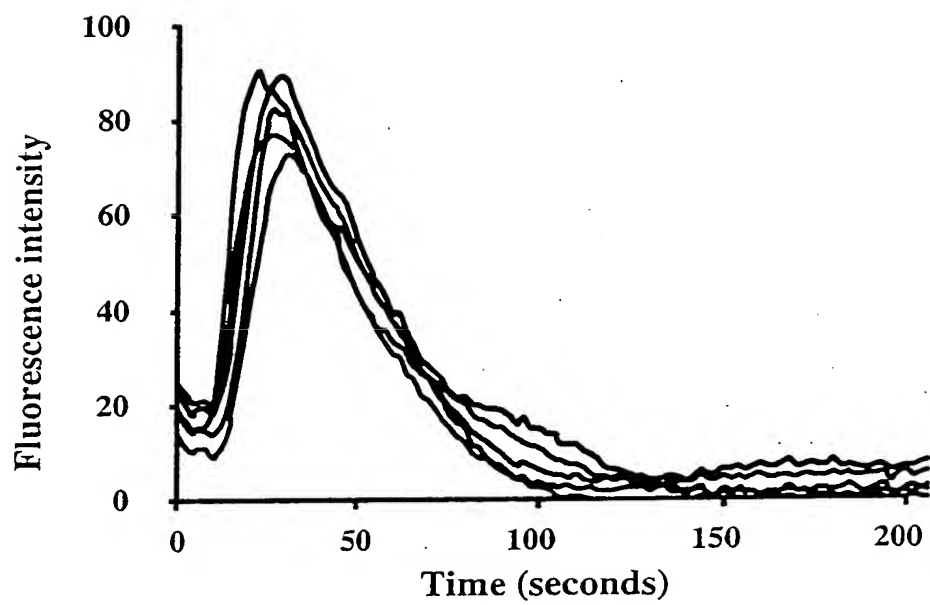


Figure 7

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**FCCP Response**  
(50  $\mu$ M, 5 x 5 grid of spots)

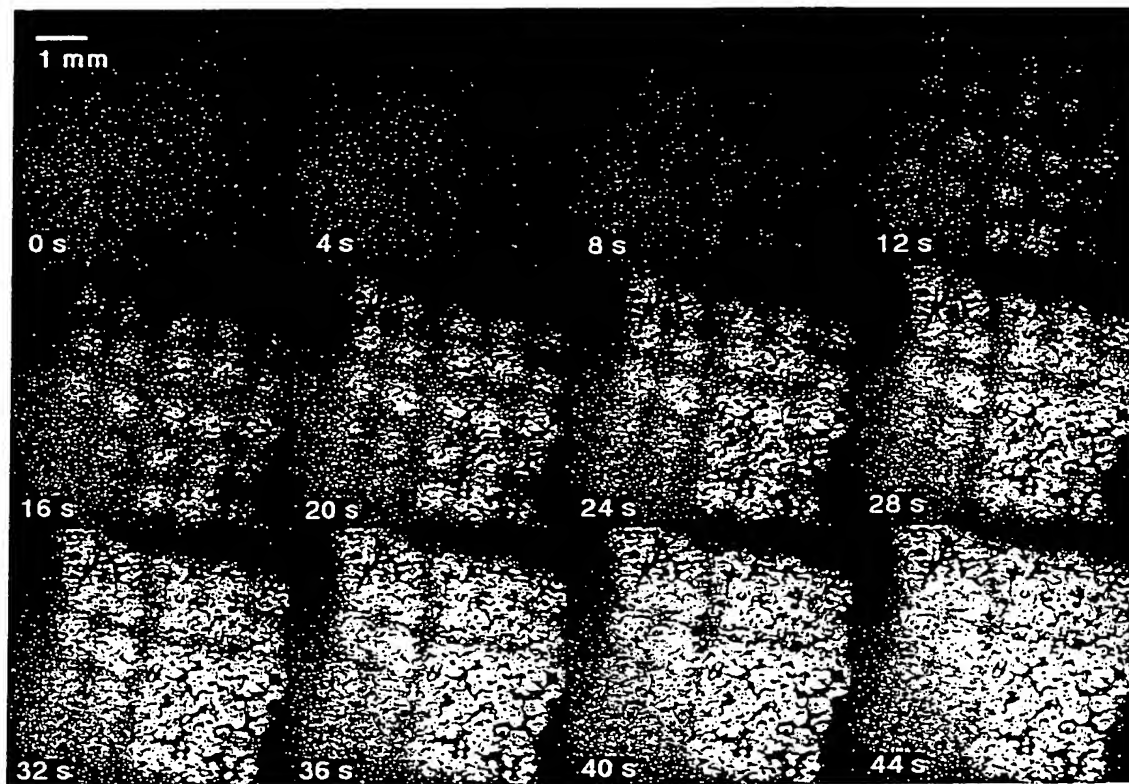


Figure 8

**FCCP Response**  
(50  $\mu$ M, five central spots)

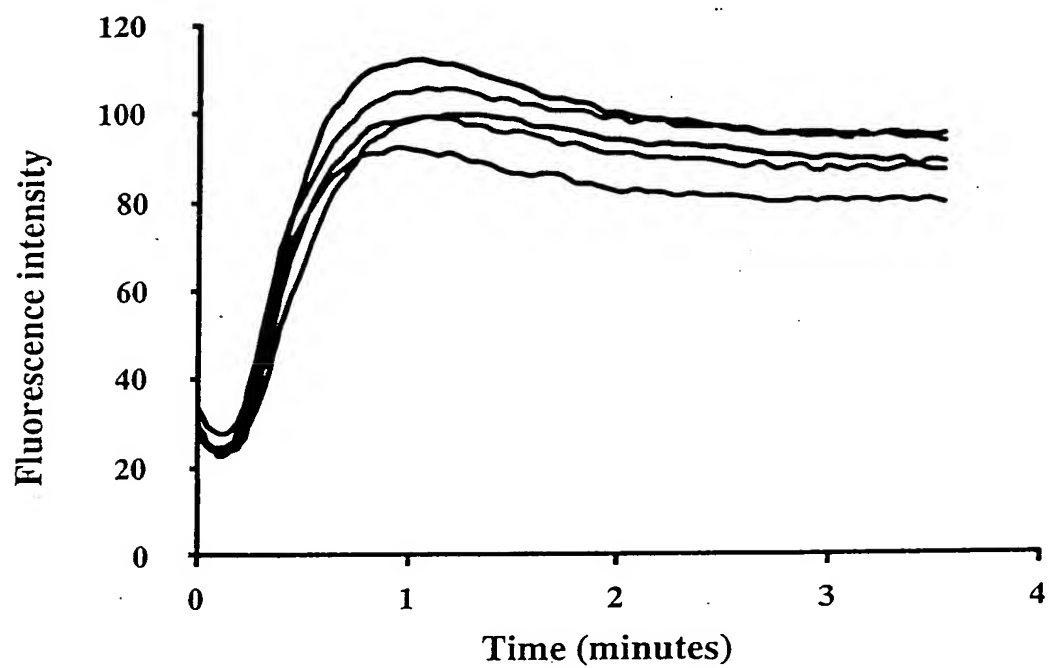


Figure 9



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**FCCP Dose-response**  
(50, 5, 0.5, 0.05 and 0.005  $\mu$ M, 5 x 5 grid)

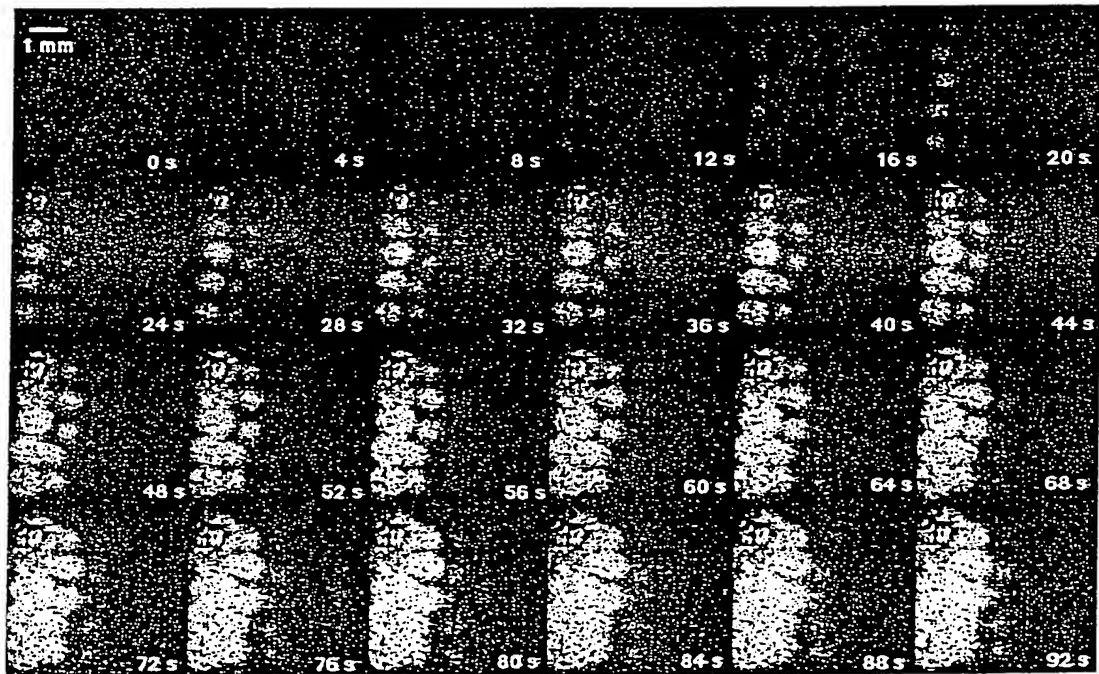


Figure 10

**FCCP Dose-response**  
(50, 5, 0.5, 0.05 and 0.005  $\mu\text{M}$ )

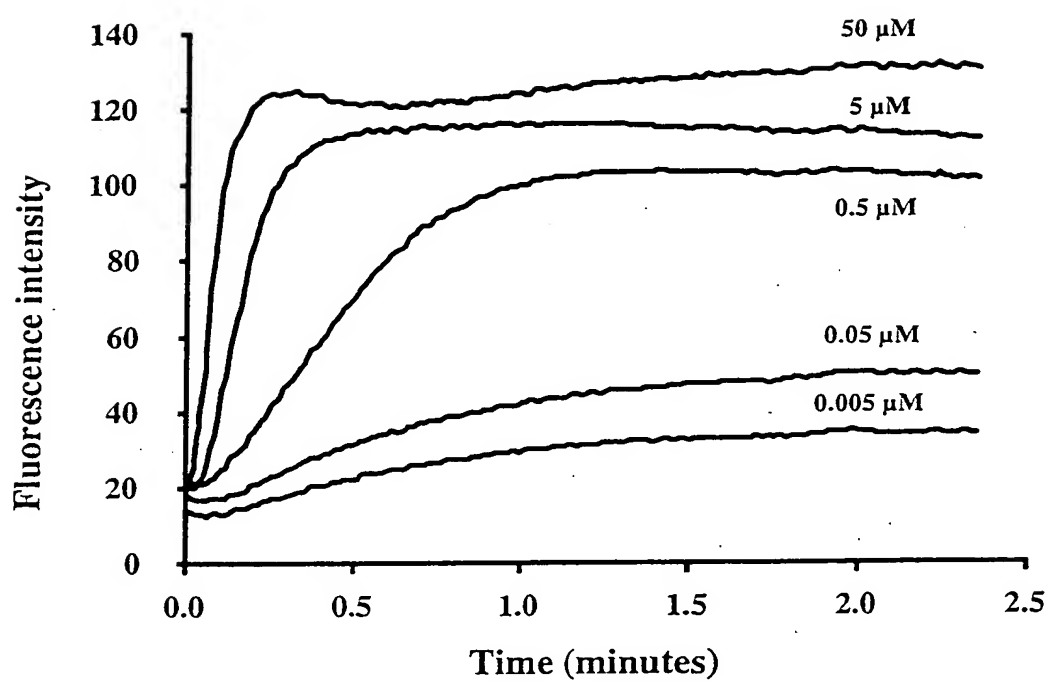


Figure 11

# Ionomycin and Thapsigargin responses

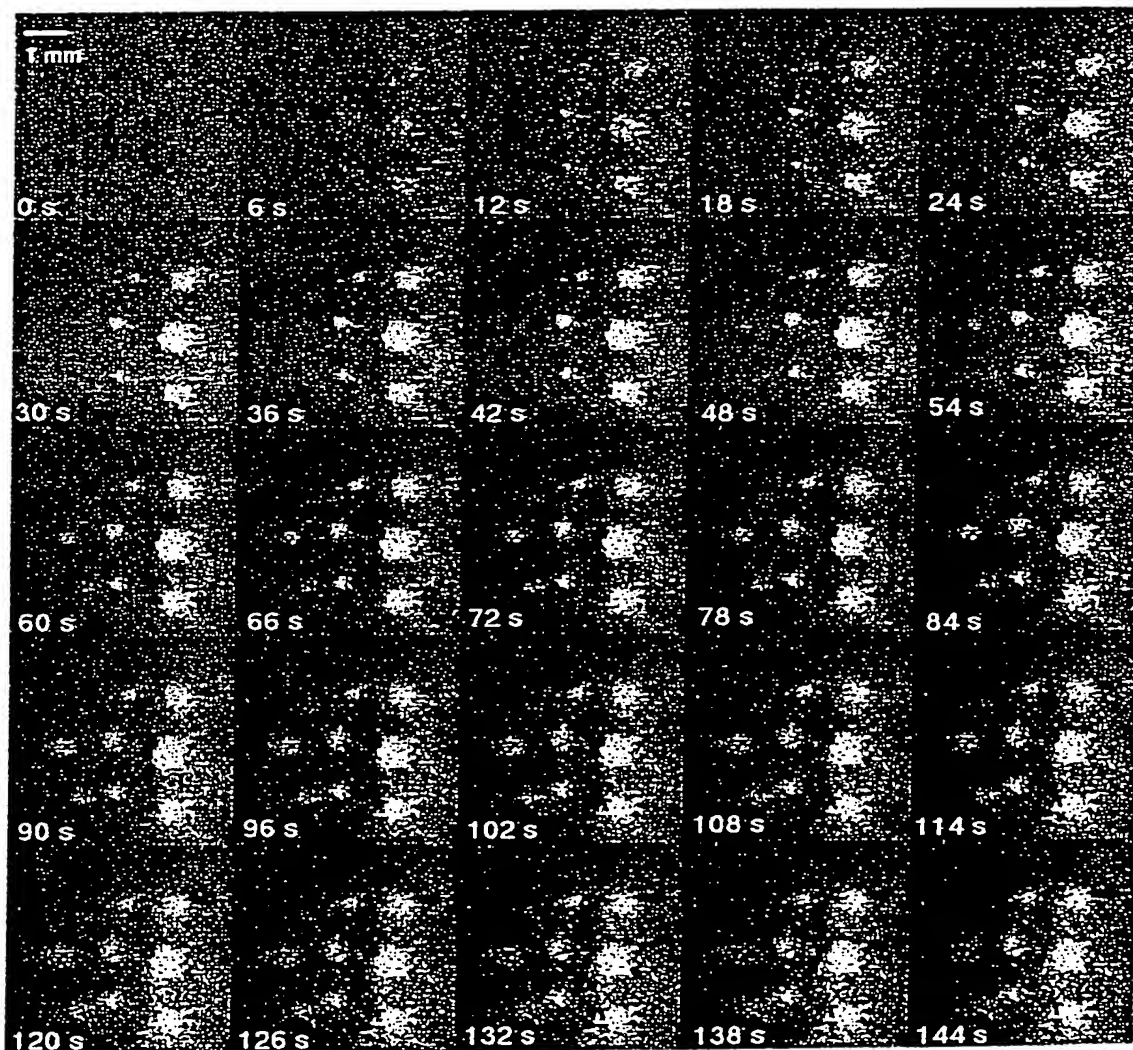


Figure 12

**Ionomycin and Thapsigargin responses**  
(mean of two to three responses)

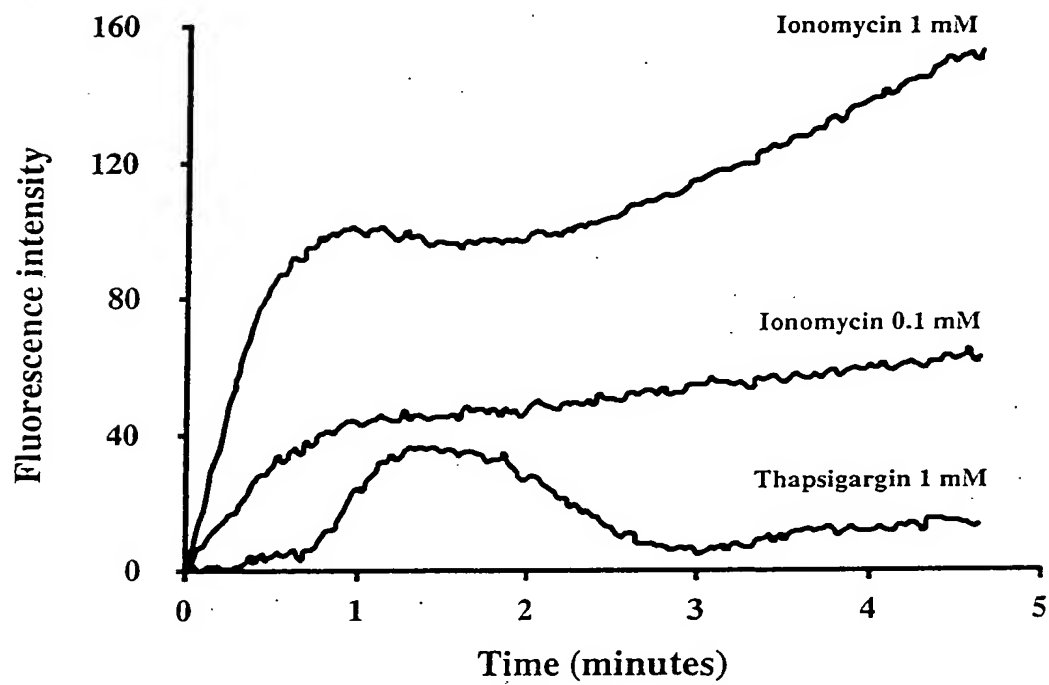


Figure 13